ABSTRACT

The present invention is directed to a data processing apparatus adapted for performing scramble processing of transmit data, which comprises cyclic code generating means for generating cyclic bit data train of a predetermined period, EXOR operation means for sequentially performing EXOR operation of the cyclic bit data train with respect to the transmit data to output scramble-processed data, data generating means for generating bit data of a predetermined pattern, and switching means supplied with the scramble-processed data and the bit data of the predetermined pattern generated by the data generating means to select the bit data of the predetermined pattern at the time of synchronization processing of the transmit data, and to select the scramble-processed data when synchronization processing of transmit data is not performed to output the data thus selected as scrambler output data.